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Sort by  [Save results to a Binder](#)**1** [A study of the applicability of existing exception-handling techniques to component-based technology](#)

Jun Lang, David B. Stewart

March 1998

**Transactions on Programming Languages and Systems (TOPLAS)**, Volume 19 Issue 1**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (220.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 96, Downloads (Overall): 111

This study focuses on the current state of error-handling technology and concludes with research in error handling for component-based real-time software. With real-time processing complexity, the quality of service is a critical factor in the design of real-time systems.

**Keywords:** component-based software, error detection and handling, faults, reconfiguration, timing and deadline failures

**2** [Design and evaluation of a wide-area event notification service](#)

Antonio Carzaniga, David S. Rosenblum, Alexander L. Wolf

August 2001

**Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (1.08 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics:** Downloads (6 Weeks): 37, Downloads (12 Months): 307, Downloads (Overall): 344

The components of a loosely coupled system are typically designed to operate by generating asynchronous events. An event notification service is an application-independent infrastructure for constructing event-driven systems.

**Keywords:** content-based addressing and routing, event notification, publish/subscribe

**3** [Decomposition of preemptive scheduling in the Go! component-based operating system](#)

Greg Law, Julie McCann

September 2000

**EW 9: Proceedings of the 9th workshop on ACM SIGOPS European workshop challenges for the operating system****Publisher:** ACM

Full text available: Pdf (186.29 KB)




Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 29, Downloads (Overall): 32

Embedded systems are required to exhibit ever increasing functionality while continuing to support the next generation of embedded operating systems must support protection with very low overhead (dynamically) configurable. ...

**4** [HydroJ: object-oriented pattern matching for evolvable distributed systems](#)**ADVANCED SEARCH** [Advanced Search](#)**FEEDBACK**

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-  [Keunwoo Lee, Anthony LaMarca, Craig Chambers](#)  
 November 2003 **OOPSLA '03**: Proceedings of the 18th annual ACM SIGPLAN conference  
 systems, languages, and applications  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  Pdf (311.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#)  
**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 49, Downloads (Overall): 26




In an evolving software system, components must be able to change independently v  
 their peers. One obstacle to independent evolution is the *brittle parameter problem*:  
 communicate can ...

**Keywords:** HydroJ, XML, distributed systems, dynamic dispatch, object-oriented pro  
 semi-structured data, software evolution, ubiquitous computing

Also published in:

November 2003 **SIGPLAN Notices** Volume 38 Issue 11




## 5 [Performance monitoring of java applications](#)

-  [M. Harkema, D. Quartel, B. M. M. Gijsen, R. D. van der Mei](#)  
 July 2002 **WOSP '02**: Proceedings of the 3rd international workshop on Software and  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  Pdf (219.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#)  
**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 106, Downloads (Overall): 4

Over the past few years, Java has evolved into a mature platform for developing ente  
 factor for the commercial success of these applications is end-to-end performance, e.  
 throughput and availability. ...

**Keywords:** performance measurement and monitoring of java applications

## 6 [Fast algorithm for creating space efficient dispatching tables with application to n](#)





-  [Yoav Zibin, Joseph Yossi Gil](#)  
 November 2002 **OOPSLA '02**: Proceedings of the 17th ACM SIGPLAN conference on Obj  
 systems, languages, and applications  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  Pdf (312.23 KB) Additional Information: [full citation](#), [abstract](#), [references](#)  
**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 37, Downloads (Overall): 4

The dispatching problem can be solved very efficiently in the single-inheritance~ (SI)  
 how to extend one such solution to the multiple-inheritance~ (MI) setting. This gener  
 to the space requirement ...

Also published in:

November 2002 **SIGPLAN Notices** Volume 37 Issue 11

## 7 [Composing crosscutting concerns using composition filters](#)

-  [Lodewijk Bergmans, Mehmet Aksit](#)  
 October 2001 **Communications of the ACM**, Volume 44 Issue 10  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  Html (29.88 KB),  Pdf (144.84 KB) Additional Information: [full citation](#), [appendices](#),  
[index terms](#)  
**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 208, Downloads (Overall): 4

### [A fine-grained access control system for XML documents](#)

[Ernesto Damiani](#), [Sabrina De Capitani di Vimercati](#), [Stefano Paraboschi](#), [Pierangela Samarati](#)  
May 2002 **Transactions on Information and System Security (TISSEC)**, Volume 1

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (330.60 KB)


Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 27, Downloads (12 Months): 218, Downloads (Overall):

Web-based applications greatly increase information availability and ease of access, and information. The distribution and sharing of information via the Web that must be accessible to electronic commerce ...

**Keywords:** Access control, World Wide Web, XML documents, authorizations specific

### 9 [Separating access control policy, enforcement, and functionality in extensible systems](#)

 [Robert Grimm](#), [Brian N. Bershad](#)

February 2001 **Transactions on Computer Systems (TOCS)**, Volume 19 Issue 1

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (164.03 KB)


Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 101, Downloads (Overall):

Extensible systems, such as Java or the SPIN extensible operating system, allow for extensions to be added to a running system in almost arbitrary fashion. Extensions closely interact through interfaces to ...

**Keywords:** Java, SPIN, access check, auditing, extensible systems, policy-neutral enforcement, protection domain transfer, security policy

### 10 [XML implementation of frame processor](#)

 [Tak Wong](#), [Stan Jarzabek](#), [Soe Myat Swe](#), [Ru Shen](#), [Hongyu Zhang](#)

May 2001 **SSR '01: Proceedings of the 2001 symposium on Software reusability: putting**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (250.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 30, Downloads (Overall): 1

A quantitative study has shown that frame technology [1] supported by Fusion tools is in the market (70%) and project costs (84%). Frame technology has been developed to help business software product families. ...

**Keywords:** frame technology, product families, variant requirements

Also published in:


May 2001 **SIGSOFT Software Engineering Notes** Volume 26 Issue 3

### 11 [Chessbrain: a linux-based distributed computing experiment](#)

[Carlos Justiniano](#)

September 2003 **Linux Journal**, Volume 2003 Issue 113

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  Html (20.87 KB)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 3, Downloads (Overall): 137

Try your skill against a worldwide network of chess-playing computers, or offer your people.


**12** [An innovative design approach to build virtual environment systems](#) [M. Oliveira, J. Crowcroft, M. Slater](#)

May 2003


**EGVE '03**: Proceedings of the workshop on Virtual environments 2003**Publisher**: ACMFull text available:  [Pdf](#) (781.01 KB)Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics**: Downloads (6 Weeks): 6, Downloads (12 Months): 43, Downloads (Overall): 7

A Virtual Environment (VE) presents a complex problem with interesting non-trivial development. The majority of existing systems supporting VE are based on monolithic maintenance and software reuse difficult ...

**Keywords**: component frameworks, java, online games, system design, virtual environment

**13** [A survey of customizability in operating systems research](#) [G. Denys, F. Plessens, F. Matthijs](#)

December 2002


**Computing Surveys (CSUR)**, Volume 34 Issue 4**Publisher**: ACM  [Request Permissions](#)Full text available:  [Pdf](#) (149.83 KB)Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics**: Downloads (6 Weeks): 38, Downloads (12 Months): 311, Downloads (Overall):

An important goal of an operating system is to make computing and communication efficient way to the applications that will run on top of it. To achieve this result, the number of policies ...

**Keywords**: Customizability, microkernels, operating systems, software protection mechanisms

**14** [Static reflector: a pattern for object-oriented access to non-object-oriented interfaces](#)[Bob Jolliffe, J. A. van der Poll](#)

September 2003


**SAICSIT '03**: Proceedings of the 2003 annual research conference of the South African Institute for Computer Scientists and Information Technologists**Publisher**: South African Institute for Computer Scientists and Information TechnologistsFull text available:  [Pdf](#) (135.46 KB)Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics**: Downloads (6 Weeks): 5, Downloads (12 Months): 19, Downloads (Overall): 34

Somewhere near the bottom of the food chain of object oriented programming, the design of a non object oriented API. This paper describes a specialisation of the Wrapper Facade pattern to encapsulate functions and ...

**Keywords**: C++, POSIX, Tcl, Win32, concurrency, design, events, patterns

**15** [Web application security assessment by fault injection and behavior monitoring](#) [Yao-Wen Huang, Shih-Kun Huang, Tsung-Po Lin, Chung-Hung Tsai](#)


May 2003

**WWW '03**: Proceedings of the 12th international conference on World Wide Web**Publisher**: ACMFull text available:  [Pdf](#) (4.53 MB)Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics**: Downloads (6 Weeks): 101, Downloads (12 Months): 719, Downloads (Overall):

As a large and complex application platform, the World Wide Web is capable of delivering sophisticated applications. However, many Web applications go through rapid development and short turnaround time, making it difficult ...

**Keywords:** black-box testing, complete crawling, fault injection, security assessment

## 16 Re-configurable distributed scripting

 [M. Ranganathan, Laurent Andrey, Virginie Schaal, Jean-Philippe Favreau](#)  
June 1999 **Computing Surveys (CSUR)** , Volume 31 Issue 2es

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (38.88 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 38, Downloads (Overall): 3

Several distributed testing, control and collaborative applications are reactive or event-driven applications can be structured as a set of handlers that react to events and that in turn have developed an ...

## 17 The design and performance of a scalable ORB architecture for COBRA asynchronous

[Alexander B. Arulanthu, Carlos O'Ryan, Douglas C. Schmidt, Michael Kircher, Jeff Parson](#)  
April 2000 **Middleware '00: IFIP/ACM International Conference on Distributed systems**

**Publisher:** Springer-Verlag New York, Inc.


Full text available:  Pdf (174.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 32, Downloads (Overall): 5

*Historically, method-oriented middleware, such as Sun RPC, DCE, Java RMI, COM, and other synchronous method invocation (SMI) models to applications. Although SMI works well for some applications, it is not well-suited for others.*

## 18 Portable resource control in Java

 [Walter Binder, Jane G. Hulaas, Alex Villazón](#)

November 2001 **OOPSLA '01: Proceedings of the 16th ACM SIGPLAN conference on Object-oriented systems, languages, and applications**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (307.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 65, Downloads (Overall): 5


Preventing abusive resource consumption is indispensable for all kinds of systems that support such as mobile object systems, extensible web servers, and web browsers. To implement these mechanisms, some support for ...

**Keywords:** Java, bytecode rewriting, micro-kernels, mobile object systems, resource management

Also published in:

November 2001 **SIGPLAN Notices** Volume 36 Issue 11

## 19 Developing flexible and high-performance Web servers with frameworks and patterns

 [Douglas C. Schmidt, James C. Hu](#)

March 2000 **Computing Surveys (CSUR)** , Volume 32 Issue 1es

**Publisher:** ACM  [Request Permissions](#)


Full text available:  Pdf (196.91 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index](#)

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 75, Downloads (Overall): 1

**Keywords:** WWW, distributed software systems, design patterns, object-oriented applications

## 20 Specialization tools and techniques for systematic optimization of system software

 [Dylan McNamee, Jonathan Walpole, Calton Pu, Crispin Cowan, Charles Krasie, Ashvin Gopal, Gilles Muller, Renaud Marlet](#)

May 2001 **Transactions on Computer Systems (TOCS)** , Volume 19 Issue 2

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (178.52 KB)

[Additional Information](#): [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 66, Downloads (Overall): 60

Specialization has been recognized as a powerful technique for optimizing operating systems, but has not been broadly applied beyond the research community because current techniques for specialization, are time-consuming ...

**Keywords:** operating system specialization, optimization, software architecture

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